SHARP®

"XR" *Educator Series*

Multimedia DLP™ Projectors

Projector • Projector • Projector • Projector • Projector • Projector • Pro

XR-20X

XR-10S

XR-20S

XR-10X

SLEEK, COMPACT DLP™ PROJECTORS

Designed to fit all of your challenging multimedia needs, the Sharp Notevision "Educator Series" projectors provide superior features, performance and reliability. Built to handle most any business, education or cinema projection requirements, they utilizes the latest Texas Instruments DDR DLP™ display technology in combination with TrueVision™ (DDP2000) image processing. The Condenser Lens Optical System provides a remarkable 2000:1 contrast ratio, along with crisp, bright and detailed images from both computer and video sources.

Powerful standard features like short-throw zoom lens, HDTV compatibility, up to 3,000-hour lamp life and 3-year industry leading warranty (with two years of "ER" 24-hour turnaround Express Repair support) make these Notevision projectors perfect for every application.

Sharp has not stopped there. To enhance color accuracy, the new "XR" Educator Series incorporates a 3 times speed, 4-segment color wheel. This color wheel ensures that all projected images are uniform - and void of the "rainbow" effect common in other projectors.

To further maximize reliability, we've incorporated multiple ultra-quiet cooling fans, making the projector the ideal choice for extended-use operation in classrooms, office environments, and even home viewing. And, with the wireless remote control with built-in forward/back PC control, operation is easy from anywhere in the room.

For placement flexibility, the "XR" series projectors operate from a table top, or ceiling mounted for permanent installation. In addition, their multiple computer/component, video and audio inputs, stereo audio line-output ("VAO"), RGB/component "loop through" and RS-232C port provides for higher-end integration.

Features & Benefits:

- *Texas Instruments DLP™ technology - provides high image quality and reliability*
- *TrueVision™ (DDP2000) advanced video circuitry optimizes performance*
- *Short Throw Zoom Lens - project large images from a "short" throw distance*
- *Exceptionally quiet cooling allows the audience to concentrate on your presentation without distracting fan noise*
- *2000:1 contrast ratio provides rich clarity*
- *On-screen setup guide and "Help" function ensures easy setup and operation*
- *DTV/HDTV compatibility (both 4:3 and 16:9) for use with current and future video technologies*
- *3x speed, 4-segment color wheel with sRGB, color temperature adjustment and bright-boost ensures superior color quality and brightness in any environment*
- *Extended lamp life (up to 3000 hours in economy mode)*
- *Full function remote with PC control (back/forward) and image freeze*
- *Portable size and weight (8.6 lbs.) make the design perfect for office, classroom and "mobile" (travel) use*

High Brightness -

- *XR-20S & XR-20X - 2300 ANSI lumens (2000 ANSI Lumens in "eco" mode)*
- *XR-10S & XR-10X - 2000 ANSI lumens (1750 ANSI Lumens in "eco" mode)*

Wide Computer Compatibility -

- *XR-10X & XR-20X - XGA native resolution (1024 x 768) up through SXGA+ (1400 x 1050) with Intelligent ImageACE resizing*
- *XR-10S & XR-20S - SVGA native resolution (800 x 600) up through SXGA+ (1400 x 1050) with Intelligent ImageACE resizing*

"XR" *Educator Series* Multimedia DLP™ Projectors

Specifications	XR-10S	XR-20S	XR-10X	XR-20X
Brightness (85% CCR Center-to-Corner Ratio)	2000 ANSI Lumens; 1750 ANSI Lumens in "eco & quiet" mode	2300 ANSI Lumens; 2000 ANSI Lumens in "eco & quiet" mode	2000 ANSI Lumens; 1750 ANSI Lumens in "eco & quiet" mode	2300 ANSI Lumens; 2000 ANSI Lumens in "eco & quiet" mode
Native Resolution/ Resizing	SVGA (800 x 600) Native Resolution up through SXGA+ (1400 x 1050) with Intelligent ImageACE Resizing		XGA (1024 x 768) Native Resolution up through SXGA+ (1400 x 1050) with Intelligent ImageACE Resizing	
TV Lines	520 TV Lines (DTV 720P input)		600 TV Lines (DTV 720P input)	
Device Type	Single 0.55" DDR DLP™ 12º with 3x Speed, 4 Segment Color Wheel			
Cabinet Color	Silver	Silver	Titanium	Titanium and Gray
H & V Frequency	fH 15-70 kHz / fV 45-85 Hz			
Dot Clock	12-108 MHz			
Compatibility	PC, Mac, Workstation			
Video System	NTSC 3.58, 4.43 / PAL, 60, M, N/SECAM			
DTV / HDTV	Compatibility including 480I, 480P, 540P, 576I, 576P, 720P, 1035I, 1080I			
Contrast Ratio / Aspect Ratio	2000:1 / Native 4:3 (with "image shift" for 16:9 software)			
Lens Type	1:1.5x Manual Zoom and Focus, F2.4-2.6, F = 19.0-21.9mm, Throw Ratio = 1.75-2.0			
Optical System	Condenser Lens Optical System (provides higher image uniformity and contrast, without "ghosting")			
Screen Size (Min/Max)	40" (diagonal) up to 300" (diagonal)			
IR Wireless Remote Control	Yes - with on-screen break timer and image "freeze" function. Also includes forward/back presentation control when used with AN-MR2 remote IR receiver [38 kHz IR carrier frequency].			
Built-in Audio System	2.0 Watts Monaural			
Lamp Module	AN-XR10LP or AN-XR10LP/1 (275 W DC, User replaceable)	AN-XR20LP or AN-XR20LP/1 (275 W DC, User replaceable)	AN-XR10LP or AN-XR10LP/1 (275 W DC, User replaceable)	AN-XR20LP or AN-XR20LP/1 (275 W DC, User replaceable)
Estimated Lamp Life	2,000 hours (standard mode); 3,000 hours (Low-Power "eco & quiet" mode)			
Fan Noise (std/eco)	33dB/30dB			
Power Source	AC 100V-240V, 3.6 A			
Power Consumption (110V)	350W in "bright" lamp setting and "high" fan mode; 305W in "eco & quiet" lamp setting and "normal" fan mode. Standby mode : 4W			
Heat Dissipation (110V)	1,315 BTU/hour (lamp setting "bright"); 1,145 BTU/hour (lamp setting "eco/quiet")			
Safety Approval	UL, FCC Class B			
Operating / Storage Temperatures	41º F to 95º F (+5º C to +35º C) / -4º F to 140º F (-20º C to +60º C)			
Dimensions (w x h x d) / Weight	12 13/32" x 4 19/64" x 11 1/32" (main body); 12 13/32" x 4 47/64" x 11 5/8" (includes projecting parts) / 8.6 lbs.			
Limited Warranty	3 years parts and labor including 2 years "ER" 24-hour turnaround Express Repair. 90-day warranty on user-replaceable projection lamp.			
Inputs/Outputs	2 - RGB/component Input (15-pin HD); 1 - Composite Video Input (RCA pin type); 1 - S-Video Input (4-pin DIN); 1 - PC/Component Stereo Audio Input (3.5mm mini jack); 1 - "Video" Audio Input (1-pair RCA pin-type); 1 - RGB Loop-through Output (15-pin HD); 1 - Stereo "VAO" Variable Audio Line Output (3.5mm mini jack); 1 - RS-232C (9-pin mini DIN).			
LAN Connectivity	Utilize Optional AN-LS1 Ethernet to RS-232C Interface			
Key Functions	Auto Synchronization; Vertical Digital Keystone Correction ["automatic" digital keystone correction on the XR-20X]; I/P conversion and 3/2 pull down; 3-step bright-boost; color temperature adjustment; sRGB; Advanced Picture Mode; OSD (on-screen display) Help; set-up guide; quick start; menu selectable for table top or ceiling-mount operation in either front or rear projection configuration.			
Included Accessories	Wireless Remote Control; two "AA" batteries; 6' AC Power Cord; 9' 10" RGB signal cable; attached lens cap, operation manual; CD-ROM manual; 10' component video cable 15-pin to 3 RCA (XR-10X only)			
Optional Accessories	AN-XRCM30 Ceiling Mounting Bracket; AN-EP101B: Extension Tube for Ceiling Mount; AN-JT200: Angle-Mount joint for Ceiling Mount; AN-CMCSS16: 16" security cable system for use with ceiling mount; AN-CMCSS46: 46" security cable system for use with ceiling mount and extension tube; AN-C3CP2: Component Video cable (3-RCA to 15-pin D-sub, 9' 10"); AN-A1RS: RS-232C adapter; AN-C10RS RS-232C Serial Control Cable (32' 10"); AN-MR2 Remote IR Receiver (for forward/reverse presentation control); AN-C3BN 5-BNC to 15-pin D-sub cable (10'); AN-LS1 Ethernet to RS-232C adapter;			

Picture (Screen) Size			Projection distance [L]		Distance from the lens center to the bottom of the image [H]
Diag. [X]	Width	Height	Minimum [L1]	Maximum [L2]	
300"	240"	180"	34' 3"	39' 8"	– 19 5/64"
200"	160"	120"	22' 10"	26' 5"	– 12 23/32"
150"	120"	90"	17' 2"	19' 10"	– 9 17/32"
100"	80"	60"	11' 5"	13' 3"	– 6 23/64"
84"	67"	50"	9' 7"	11' 1"	– 5 11/32"
72"	58"	43"	8' 3"	9' 6"	– 4 37/64"
60"	48"	36"	6' 10"	7' 11"	– 3 13/16"
40"	32"	24"	4' 7"	5' 3"	– 2 35/64"

Screen Size and Projection Distance NORMAL Mode (4:3)

Note: There may be an error of ± 3%. Values with a minus (-) sign indicate the distance from the lens center below the bottom of the image.

PICTURE BY DLP™ A TEXAS INSTRUMENTS TECHNOLOGY

TrueVision™

SHARP®

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